

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/594,293
Source: IFWP
Date Processed by STIC: 10/05/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,293

TIME: 09:43:33

Input Set : A:\PB60806seqlist.txt

Output Set: N:\CRF4\10052006\J594293.raw

5 <110> APPLICANT: Glaxo Group Limited
 7 Ellis, Jonathan H
 9 Eon-Duval, Alexandre
 11 Germaschewski, Volker
 13 Plumptre, Christopher
 15 Rapson, Nicholas Timothy
 17 West, Michael Robert
 21 <120> TITLE OF INVENTION: Immunoglobulins
 25 <130> FILE REFERENCE: PB60806
 C--> 29 <140> CURRENT APPLICATION NUMBER: US/10/594,293
 C--> 31 <141> CURRENT FILING DATE: 2006-09-26
 35 <150> PRIOR APPLICATION NUMBER: GB 0407197.3
 37 <151> PRIOR FILING DATE: 2004-03-30
 41 <150> PRIOR APPLICATION NUMBER: GB 0407193.2
 43 <151> PRIOR FILING DATE: 2004-03-30
 47 <160> NUMBER OF SEQ ID NOS: 65
 51 <170> SOFTWARE: PatentIn version 3.1
 55 <210> SEQ ID NO: 1
 57 <211> LENGTH: 5
 59 <212> TYPE: PRT
 61 <213> ORGANISM: Mus sp.
 65 <400> SEQUENCE: 1
 67 Asn Tyr Gly Val His
 68 1 5
 71 <210> SEQ ID NO: 2
 73 <211> LENGTH: 16
 75 <212> TYPE: PRT
 77 <213> ORGANISM: Mus sp.
 81 <400> SEQUENCE: 2
 83 Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met Ser
 84 1 5 10 15
 87 <210> SEQ ID NO: 3
 89 <211> LENGTH: 12
 91 <212> TYPE: PRT
 93 <213> ORGANISM: Mus sp.
 97 <400> SEQUENCE: 3
 99 Ser Pro Asn Ser Asn Phe Tyr Trp Tyr Phe Asp Val
 100 1 5 10
 103 <210> SEQ ID NO: 4
 105 <211> LENGTH: 10
 107 <212> TYPE: PRT
 109 <213> ORGANISM: Mus sp.
 113 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,293

TIME: 09:43:33

Input Set : A:\PB60806seqlist.txt

Output Set: N:\CRF4\10052006\J594293.raw

```

115 Ser Gly Ser Ser Ser Val Ser Tyr Met Tyr
116 1 5 10
119 <210> SEQ ID NO: 5
121 <211> LENGTH: 7
123 <212> TYPE: PRT
125 <213> ORGANISM: Mus sp.
129 <400> SEQUENCE: 5
131 Asp Thr Ser Asn Leu Ala Ser
132 1 5
135 <210> SEQ ID NO: 6
137 <211> LENGTH: 9
139 <212> TYPE: PRT
141 <213> ORGANISM: Mus sp.
145 <400> SEQUENCE: 6
147 Gln Gln Trp Ser Ser Tyr Pro Pro Thr
148 1 5
151 <210> SEQ ID NO: 7
153 <211> LENGTH: 120
155 <212> TYPE: PRT
157 <213> ORGANISM: Mus sp.
161 <400> SEQUENCE: 7
163 Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
164 1 5 10 15
167 Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Tyr
168 20 25 30
171 Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
172 35 40 45
175 Gly Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met
176 50 55 60
179 Ser Arg Leu Ser Ile Thr Lys Asp Asn Ser Arg Ser Gln Val Phe Phe
180 65 70 75 80
183 Lys Met Asn Ser Leu Gln Ala Asp Asp Thr Ala Ile Tyr Tyr Cys Ala
184 85 90 95
187 Lys Ser Pro Asn Ser Asn Phe Tyr Trp Tyr Phe Asp Val Trp Gly Thr
188 100 105 110
191 Gly Thr Thr Val Thr Val Ser Ser
192 115 120
195 <210> SEQ ID NO: 8
197 <211> LENGTH: 106
199 <212> TYPE: PRT
201 <213> ORGANISM: Mus sp.
205 <400> SEQUENCE: 8
207 Gln Ile Val Leu Thr Gln Ser Pro Thr Ile Met Ser Ala Ser Pro Gly
208 1 5 10 15
211 Glu Lys Val Thr Met Thr Cys Ser Gly Ser Ser Ser Val Ser Tyr Met
212 20 25 30
215 Tyr Trp Tyr Gln Glu Lys Pro Gly Ser Ser Pro Arg Leu Leu Ile Glu
216 35 40 45
219 Asp Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser

```

RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,293

TIME: 09:43:33

Input Set : A:\PB60806seqlist.txt

Output Set: N:\CRF4\10052006\J594293.raw

```

220      50      55      60
223 Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Met Glu Ala Glu
224 65      70      75      80
227 Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Tyr Pro Pro Thr
228      85      90      95
231 Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
232      100      105
235 <210> SEQ ID NO: 9
237 <211> LENGTH: 120
239 <212> TYPE: PRT
241 <213> ORGANISM: Artificial sequence
245 <220> FEATURE:
247 <223> OTHER INFORMATION: VH domain (humanised, B3)
249 <400> SEQUENCE: 9
251 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
252 1      5      10      15
255 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Thr Asn Tyr
256      20      25      30
259 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
260      35      40      45
263 Ala Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met
264      50      55      60
267 Ser Arg Phe Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Leu Tyr Leu
268 65      70      75      80
271 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
272      85      90      95
275 Lys Ser Pro Asn Ser Asn Phe Tyr Trp Tyr Phe Asp Val Trp Gly Arg
276      100      105      110
279 Gly Thr Leu Val Thr Val Ser Ser
280      115      120
283 <210> SEQ ID NO: 10
285 <211> LENGTH: 106
287 <212> TYPE: PRT
289 <213> ORGANISM: Artificial sequence
293 <220> FEATURE:
295 <223> OTHER INFORMATION: VL domain (humanised, L2)
297 <400> SEQUENCE: 10
299 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
300 1      5      10      15
303 Glu Arg Ala Thr Leu Ser Cys Ser Gly Ser Ser Ser Val Ser Tyr Met
304      20      25      30
307 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Glu
308      35      40      45
311 Asp Thr Ser Asn Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
312      50      55      60
315 Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Asn Leu Glu Pro Glu
316 65      70      75      80
319 Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Tyr Pro Pro Thr
320      85      90      95

```

RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,293

TIME: 09:43:33

Input Set : A:\PB60806seqlist.txt

Output Set: N:\CRF4\10052006\J594293.raw

```

323 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
324          100          105
327 <210> SEQ ID NO: 11
329 <211> LENGTH: 450
331 <212> TYPE: PRT
333 <213> ORGANISM: Artificial sequence
337 <220> FEATURE:
339 <223> OTHER INFORMATION: Heavy chain (humanised)
341 <400> SEQUENCE: 11
343 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
344 1          5          10          15
347 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Thr Asn Tyr
348          20          25          30
351 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
352          35          40          45
355 Ala Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met
356          50          55          60
359 Ser Arg Phe Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Leu Tyr Leu
360 65          70          75          80
363 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
364          85          90          95
367 Lys Ser Pro Asn Ser Asn Phe Tyr Trp Tyr Phe Asp Val Trp Gly Arg
368          100          105          110
371 Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
372          115          120          125
375 Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
376          130          135          140
379 Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
380 145          150          155          160
383 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
384          165          170          175
387 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
388          180          185          190
391 Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
392          195          200          205
395 Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
396          210          215          220
399 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
400 225          230          235          240
403 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
404          245          250          255
407 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
408          260          265          270
411 Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
412          275          280          285
415 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
416          290          295          300
419 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
420 305          310          315          320

```

RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,293

TIME: 09:43:33

Input Set : A:\PB60806seqlist.txt

Output Set: N:\CRF4\10052006\J594293.raw

```

423 Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
424                      325                      330                      335
427 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
428                      340                      345                      350
431 Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
432                      355                      360                      365
435 Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
436~ 370                      375                      380
439 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
440 385                      390                      395                      400
443 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
444                      405                      410                      415
447 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
448                      420                      425                      430
451 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
452                      435                      440                      445
455 Gly Lys
456 450
459 <210> SEQ ID NO: 12
461 <211> LENGTH: 213
463 <212> TYPE: PRT
465 <213> ORGANISM: Artificial sequence
469 <220> FEATURE:
471 <223> OTHER INFORMATION: Light chain (humanised)
473 <400> SEQUENCE: 12
475 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
476 1                      5                      10                      15
479 Glu Arg Ala Thr Leu Ser Cys Ser Gly Ser Ser Ser Val Ser Tyr Met
480                      20                      25                      30
483 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Glu
484                      35                      40                      45
487 Asp Thr Ser Asn Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
488 50                      55                      60
491 Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Asn Leu Glu Pro Glu
492 65                      70                      75                      80
495 Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Tyr Pro Pro Thr
496                      85                      90                      95
499 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala Pro
500                      100                     105                     110
503 Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr
504                      115                     120                     125
507 Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys
508 130                     135                     140
511 Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu
512 145                     150                     155                     160
515 Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser
516                      165                      170                      175
519 Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala
520                      180                      185                      190

```

VERIFICATION SUMMARY

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,293

TIME: 09:43:34

Input Set : A:\PB60806seqlist.txt

Output Set: N:\CRF4\10052006\J594293.raw

L:29 M:270 C: Current Application Number differs, Replaced Current Application Number

L:31 M:271 C: Current Filing Date differs, Replaced Current Filing Date